## Standard Guadalupian Facies Spectrum

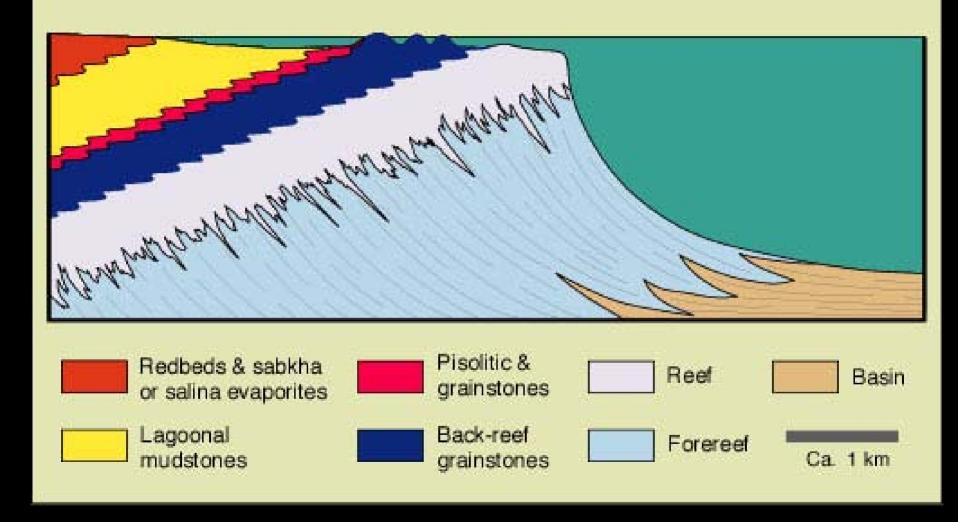
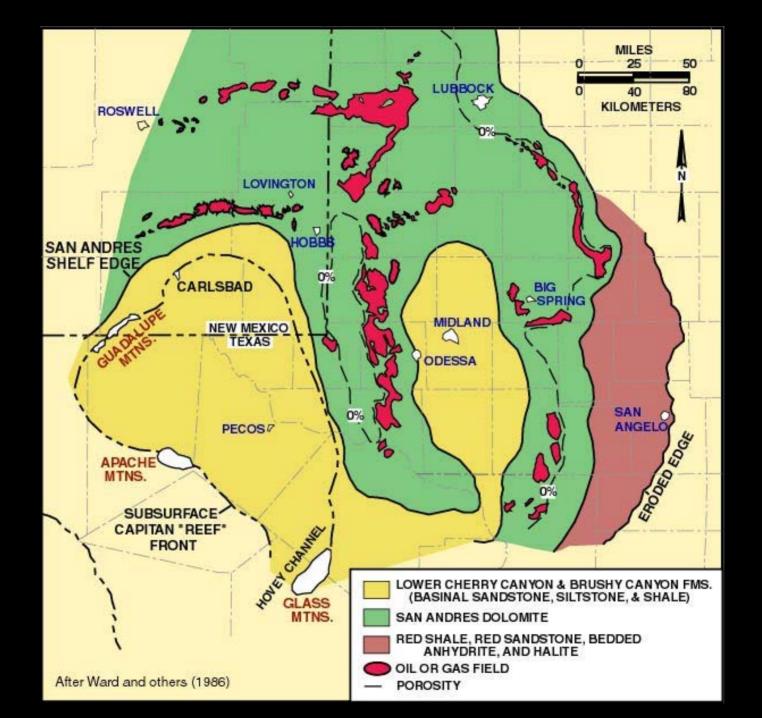
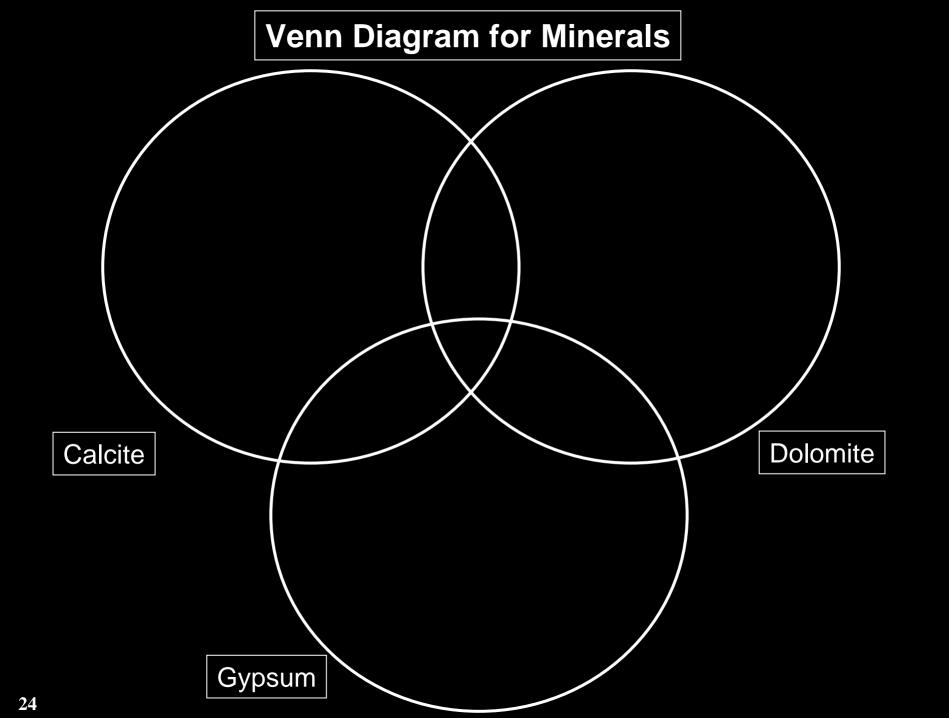


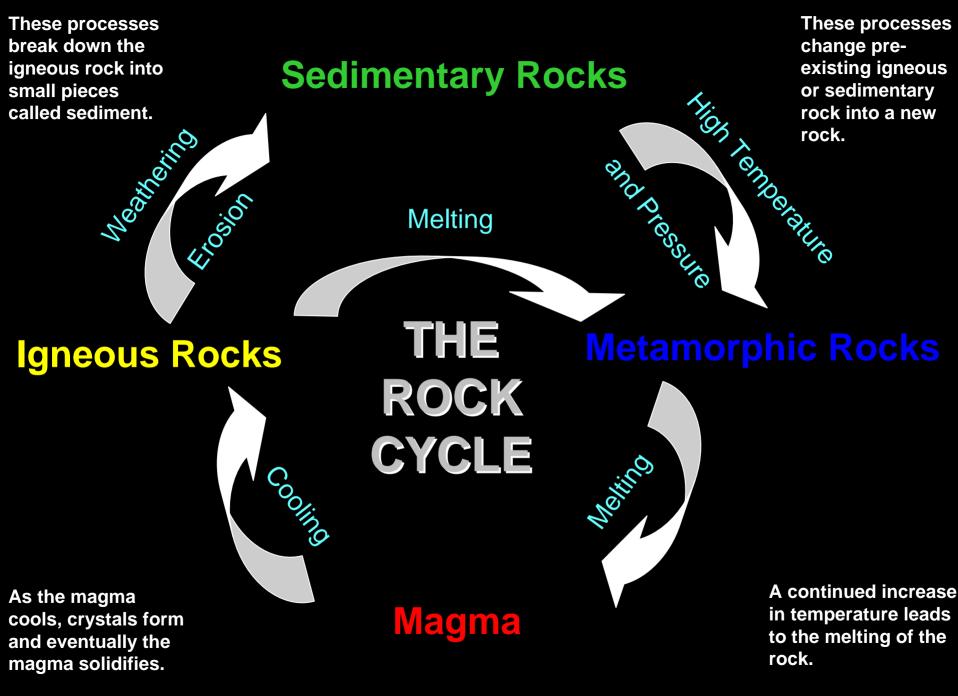
Image from P. Schole at New Mexico School of Technology: http://geoinfo.nmt.edu/staff/scholle/guadalupe.html



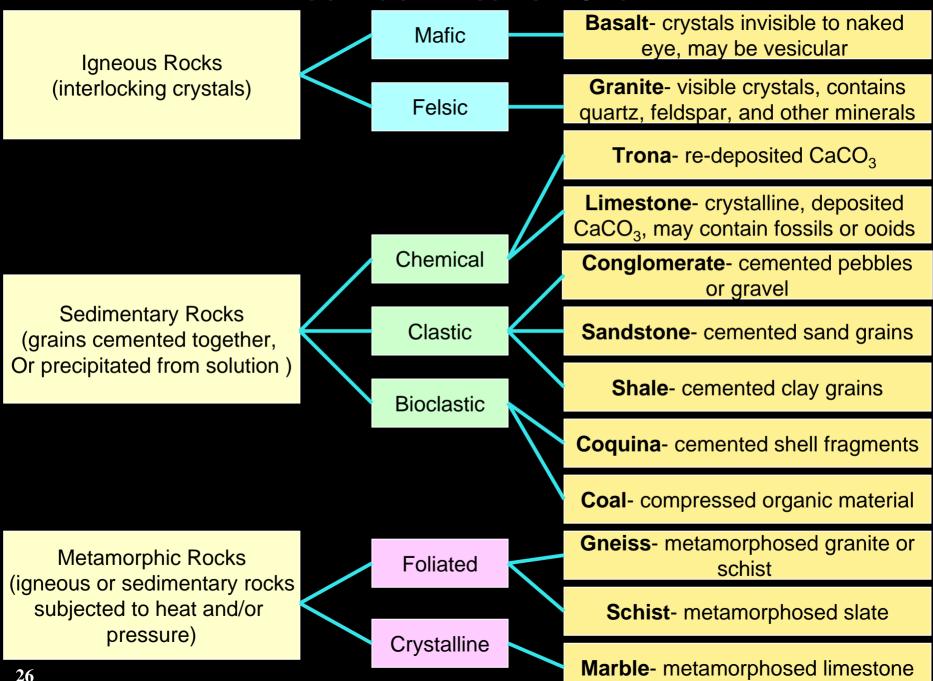
## **Mineral Identification Chart**

| Initial Characteristics |  |                        | Mineral Names and other Features |   |  |
|-------------------------|--|------------------------|----------------------------------|---|--|
| Metallic                | Nonmagnetic  | Gold/bronze<br>colored |                                  | <b>Pyrite</b> (Fool's Gold, FeS <sub>2</sub> )-black striations                       |  |
|                         | Softer than fingernail                                       | Good cleavage          | Splits into paper-like sheets    | <b>Gypsum</b> (Used in drywall, CaSo <sub>4</sub> - 2H <sub>2</sub> O) -usually clear |  |
|                         | Softer than glass; harder than fingernail  Harder than glass | Good cleavage          | Splits into                      | Muscovite Mica<br>(KAI2(AISi3O10)(F, OH)2)<br>- transparent sheets                    |  |
|                         |  |                        | Reacts with HCI                  | Calcite (CaCO <sub>3;</sub> found in limestone and shells) -rhombohedral crystals     |  |
| Nonmetallic             |  |                        | Powder reacts with HCI           | <b>Dolomite</b> (CaMg(CO <sub>3</sub> ) <sub>2</sub> ) -may occur as rhombus shapes   |  |
|                         |  |                        | Salty taste                      | Halite (NaCl; common table Salt)- transparent or translucent                          |  |
|                         |  | Good cleavage          |                                  | <b>Orthoclase</b> (AlSiO <sub>2</sub> ; potassium Feldspar)- usually pinkish          |  |
| 23                      |  | No cleavage            |                                  | <b>Quartz</b> (Sio <sub>2</sub> )- may be clear,<br>Pink, smoky, or purple            |  |





## **Rock Identification Chart**



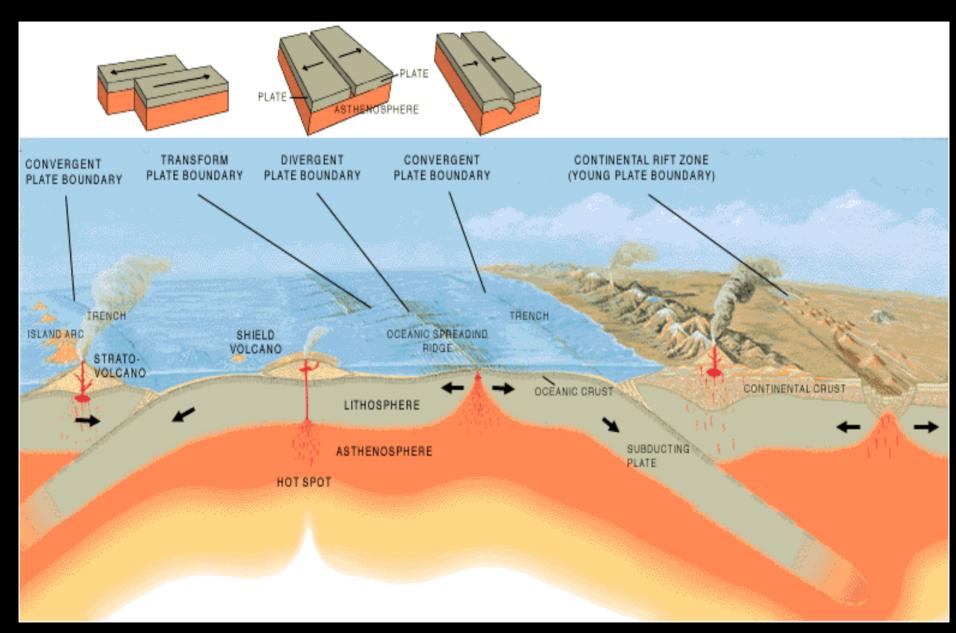


Diagram from USGS Education and Outreach web page http://geology.er.usgs.gov/eastern/tectonic.html

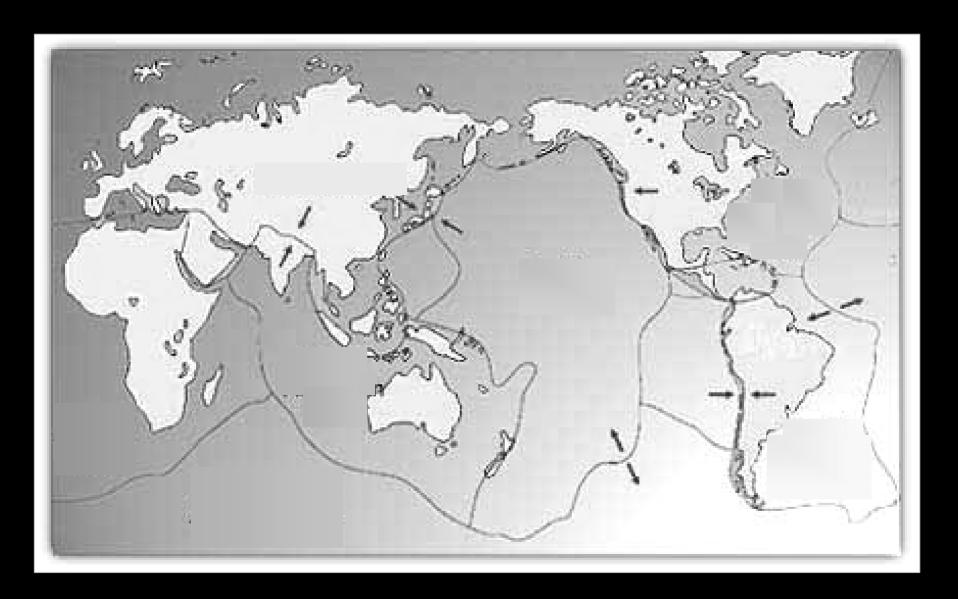


Diagram modified from Think Quest's Plate Tectonics web page http://library.thinkquest.org/17457/platetectonics/index.php

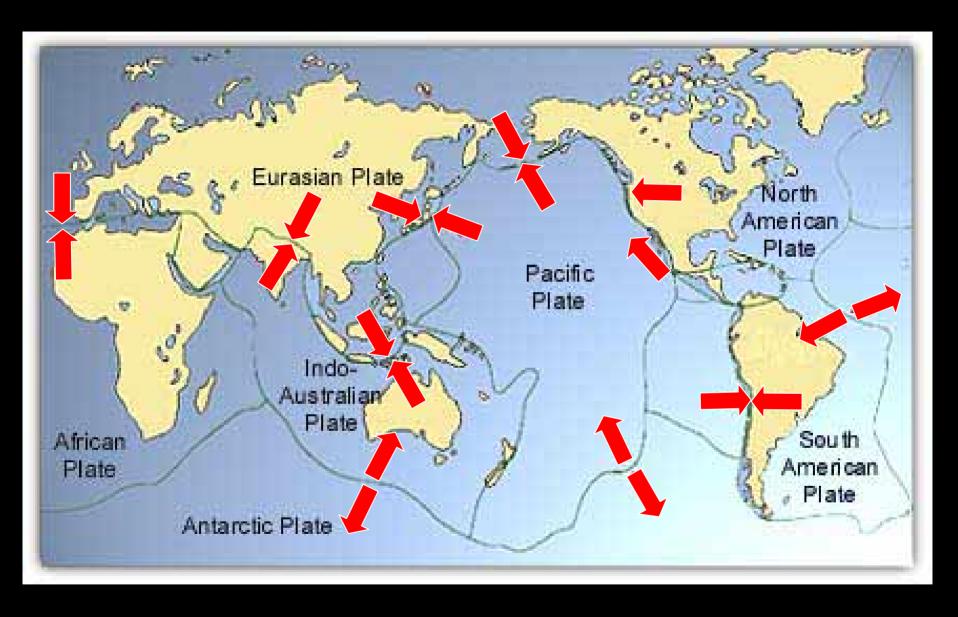
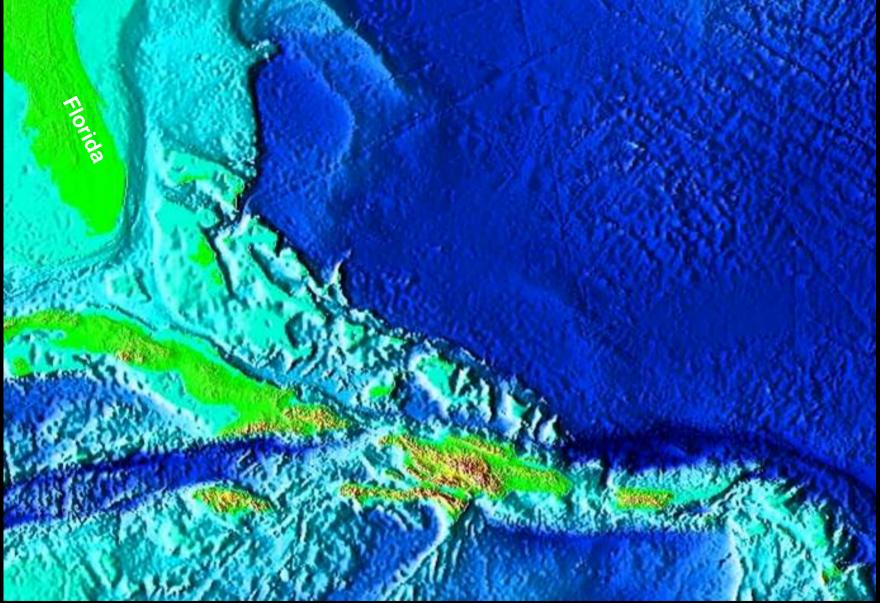


Diagram from Think Quest's Plate Tectonics web page http://library.thinkquest.org/17457/platetectonics/index.php



Highest land elevation

**Deepest ocean depths** 

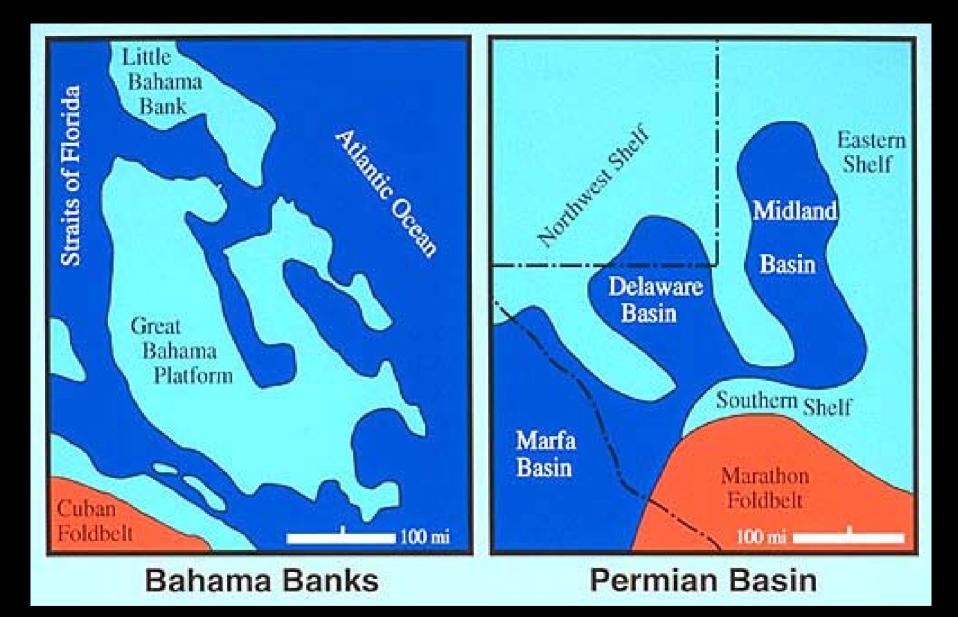


Image from: New Mexico School of Technology: http://geoinfo.nmt.edu/staff/scholle/guadalupe.html

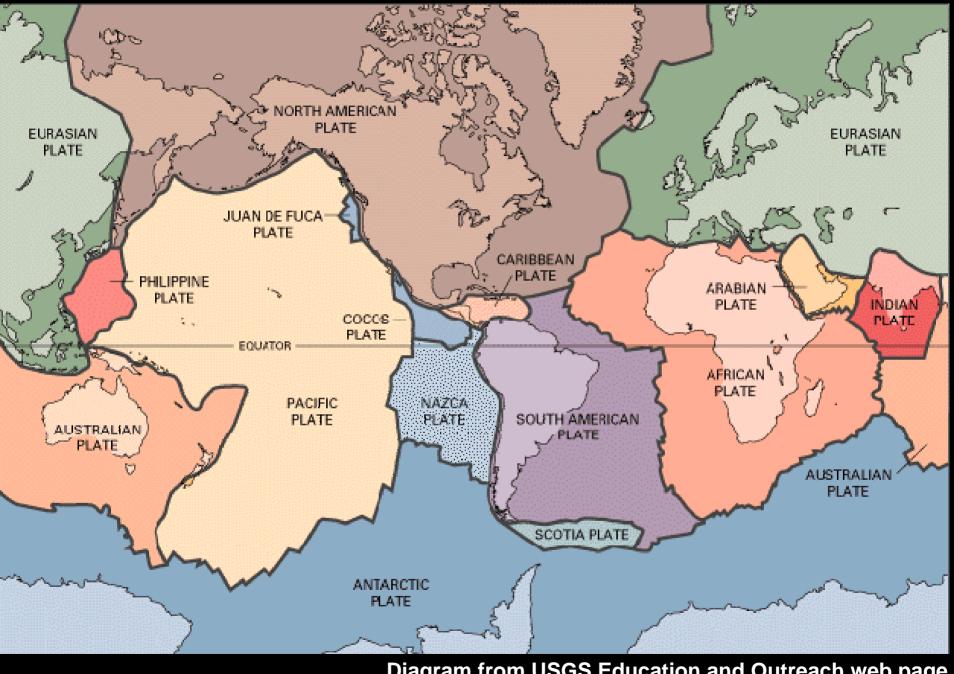
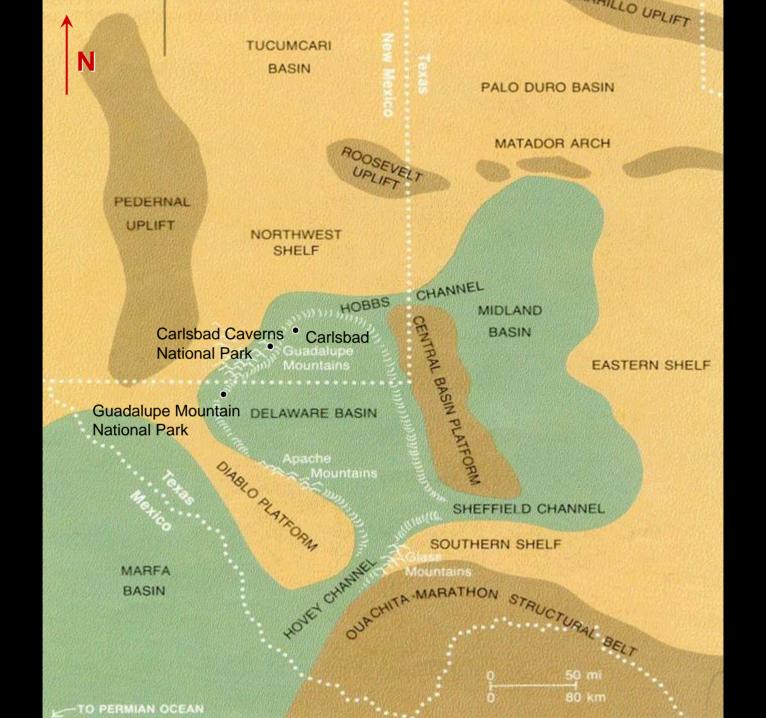


Diagram from USGS Education and Outreach web page http://geology.er.usgs.gov/eastern/plates.html







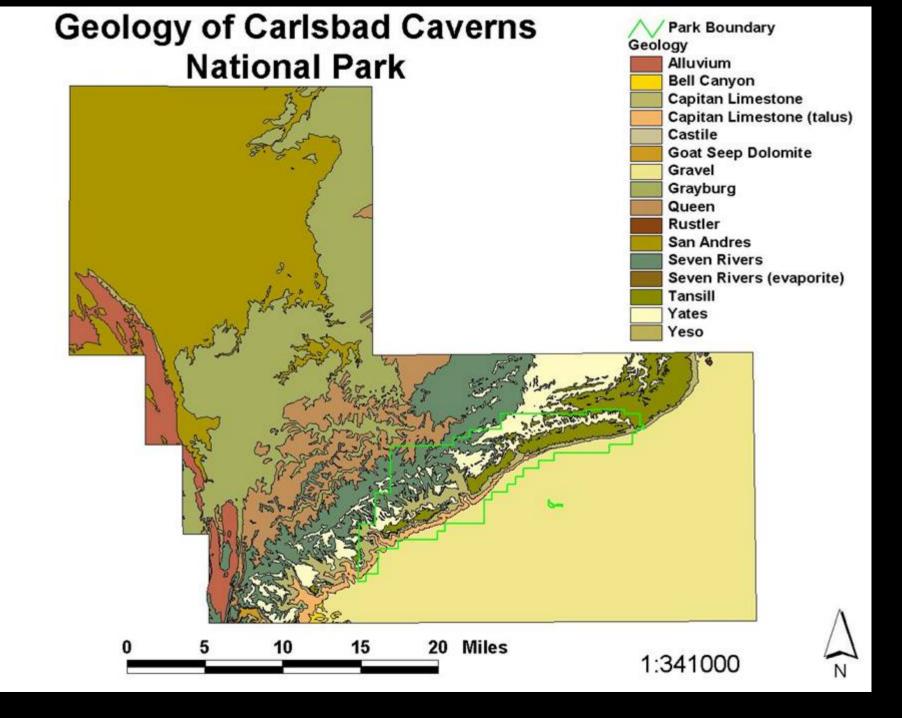


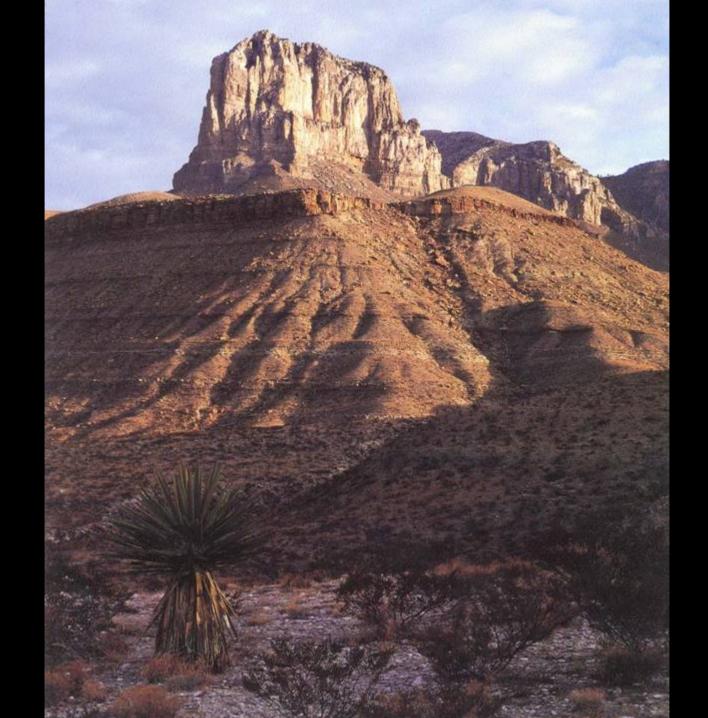
Photos from NOAA's Coral Reef Online website http://www.coralreef.noaa.gov/

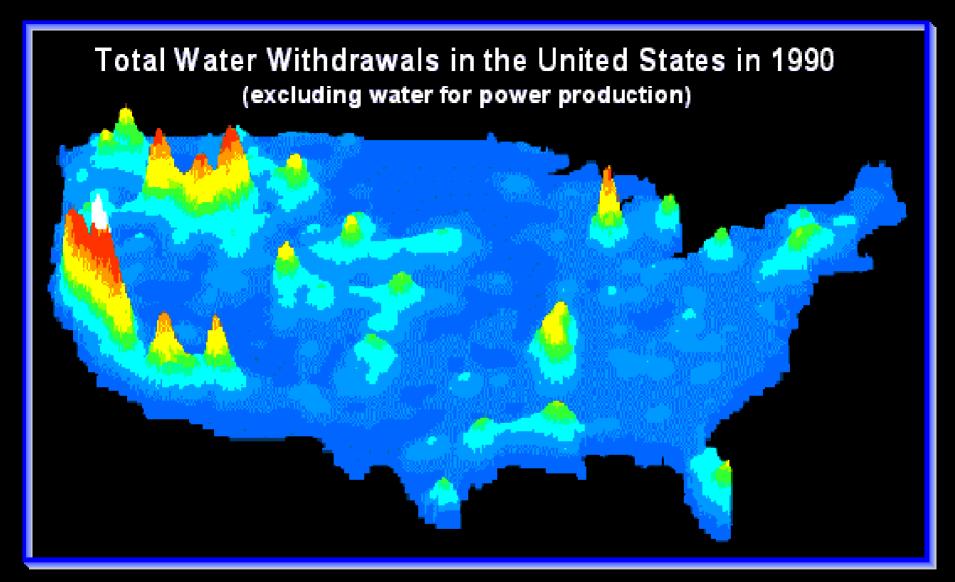


Photo by David Doubilet on National Geographic Magazine's Online website http://www.nationalgeographic.com/ngm/0101/feature2/index.html









Warm colors to white indicates the greatest amount of water withdrawal; cool, dark colors indicate the least.